

TECHNICAL WORK MAY NOT BEGIN PRIOR TO CO APPROVAL

NASA/GODDARD SPACE FLIGHT CENTER

REQUEST FOR TASK PLAN / TASK ORDER

CONTRACTOR	CONTRACT NO. / TASK NO.	JOB ORDER NUMBER	APPROF. FY
OSS Group, Inc.	NAS5- 99124 TASK NO. 301 AMENDMENT	451-21810-46-89	00

TASK TITLE: (NTE 80 characters; include Project name)

FQPSK DEMONSTRATION TEST

APPROVALS: (Type or print name and sign)			
ASSISTANT TECHNICAL REPRESENTATIVE (OR TASK MONITOR)	DATE	ORG CODE	MAIL CODE
Warner Miller <i>War H. Miller</i>	6/8/00	564	564
BRANCH HEAD	DATE	CODE	PHONE
Robert Kasa <i>Robert Kasa</i>	6/8/00	564	301 286-8043
CONTRACTING OFFICER'S TECHNICAL REPRESENTATIVE (COTR)	DATE	CODE	PHONE
Robert S. Lebar, Jr. <i>Robert S. Lebar, Jr.</i>	6/15/00	560	301-286-6588
FLIGHT HARDWARE, CRITICAL GSE OR SOFTWARE? <small>(IF YES, NEED CODE 303 CONCURRENCE NEXT BLOCK)</small>	CONTRACTING OFFICER'S QUALITY REP.		DESIGNATED FAM:
<input checked="" type="checkbox"/> NO <input type="checkbox"/> YES			

The contractor shall identify and explain the reason for any deviations, exceptions, or conditional assumptions taken with respect to this Task Order or to any of the technical requirements of the Task Order Statement of Work and related specifications. The contractor shall complete and submit the required Reps and Certs.

(To be completed by Contracting Officer)
C.O. Requested Quote on:
Date: **JUN 16 2000**

Contractor will develop specification or statement of work under this task for a future procurement.	<input checked="" type="checkbox"/> NO <input type="checkbox"/> YES
Flight hardware will be shipped to GSFC for testing prior to final delivery.	<input type="checkbox"/> NO <input type="checkbox"/> YES <input checked="" type="checkbox"/> N/A
Government Furnished Property/Facilities:	<input type="checkbox"/> NO <input checked="" type="checkbox"/> YES -- SEE LIST OF GFP (offsite only) / FACILITIES (onsite only)
Onsite Performance:	<input type="checkbox"/> NO <input checked="" type="checkbox"/> YES If yes: <input type="checkbox"/> TOTAL <input checked="" type="checkbox"/> PARTIAL
If partial, indicate onsite work in SOW by asterisk (*)	
Surveillance Plan Attached:	<input type="checkbox"/> NO <input type="checkbox"/> YES
Highlighted Contract Clauses:	(to be completed by Contracting Officer)

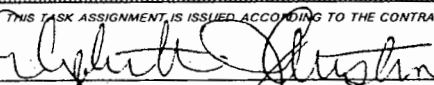
The effective date of this task will be the date of the Contracting Officer's signature below.

INCENTIVE FEE STRUCTUR (check one)
(See Contract NAS5-99124, Attachment K, Incentive Fee Plan)

	<input checked="" type="checkbox"/> No. 1	<input type="checkbox"/> No. 2	<input type="checkbox"/> No. 3	<input type="checkbox"/> No. 4	<input type="checkbox"/> No. 5
Cost	10%	50%	25%	25%	%
Schedule	15%	25%	25%	50%	%
Technical	75%	25%	50%	25%	%

(To be completed by Contracting Officer)

The target cost of this task order is \$ \$45,857
 The target fee of this task order is \$ 2,847.
 The total target cost and target fee of this task order as contemplated by the Incentive Fee clause of this contract is \$ 48,704.
 The maximum fee is \$ 4,161.
 The minimum fee is \$0.

AUTHORIZED SIGNATURE:	
 SIGNATURE OF CONTRACTING OFFICER	7/6/00 DATE ELIZABETH J. AUSTIN CONTRACTING OFFICER TYPED NAME OF CONTRACTING OFFICER
CONTRACTOR'S ACCEPTANCE:	
_____ AUTHORIZED SIGNATURE	_____ DATE

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QSS Group, Inc.	NAS5- 99124	301	

Applicable paragraphs from contract Statement of Work:

STATEMENT OF WORK: (Continue on blank paper if additional space is required)

The contractor shall model the FQPSK modulation as needed for spectral analysis during testing.
The contractor shall test the GSFC-provided modulators in a closed loop configuration at the GSFC.
The data rate for the high rate modulator shall be 300 Mbps.
The data rate for the low rate modulator shall be 2 Mbps.
The contractor shall test the performance of the modulators via the End-to-End System at the WSC with a TDRS satellite.
The low rate data shall be transmitted at S-band.
The high rate data shall be transmitted at Ku-band.
The contractor shall test the performance of the modulators with the Ka-band Phased Array Antenna via End-to-End System at the RF SOC.

PERFORMANCE SPECIFICATIONS:

Final Report shall provide end-to-end performance test results for S, Ku, and Ka bands as compared to theory (i.e., bit error rates and spectrum of the demodulated base band signal).

APPLICABLE DOCUMENTS:

None.

TASK END DATE: 12/30/00**MILESTONES/DELIVERABLES AND DATES:**

- | | |
|---------------------------------------------|------------------------------------|
| 1. Modeling/Simulation completed | 8/15/00 |
| S and Ku closed loop testing | |
| 2. Closed loop testing completed | 9/15/00 |
| 3. End-to-End testing completed | 10/30/00 |
| 4. Technical Progress Report | Monthly, due the 15th of the month |
| 5. Final Report | 12/30/00 |
| 6. Complete Ka testing at RF SOC | 12/10/00 |

PERFORMANCE STANDARDS:

Schedule: On-time completion/delivery of the milestones/deliverables
Technical: ATR's acceptance of the above

FINAL DELIVERY DESTINATION (NAME, BLDG, ROOM):

Warner Miller, building 11, room E215